

MACROMIND

THREE-D

D E V E L O P E R V E R S I O N



MacroMind Three-D is the three dimensional animation, rendering and video production tool for the Macintosh that brings a new level of ease to 3D animation.

MacroMind Three-D is designed for graphics, animation, video and technical professionals who want to bring the stunning visual effects and photorealism of 3D animations to their videotape production, presentations, and visualizations. MacroMind Three-D gives you power, flexibility and a straightforward interface to create dazzling images and animations, exciting flying logos, breathtaking architectural fly-throughs, package designs and compelling photorealistic visualizations.

The MacroMind Three-D Developers Version offers substantial functionality for the professional who wants access to an early version of the product to begin using its powerful capabilities. All Developer Version owners will receive the final version automatically when it is available in early 1991.

MacroMind Three-D consists of three separate modules that operate together: 3DWorks, RenderWorks and ImageWorks. 3DWorks is the animation module in which users can import 3D models, easily and directly animate multiple objects, cameras and lights in 3D space.

RenderWorks is the visualization module in which color, texture maps, surface material, shading and lighting attributes set in 3DWorks are applied to models and animations for realism and exciting visual effects.

ImageWorks is the compositing and output module where the user can digitally composite 2D and 3D images and animations and output these as PICT or PICS files for inclusion in MacroMind Director or other programs or record directly to videotape.

MacroMind Three-D Developer Version allows you to bring in models from 3D modeling and CAD programs in a variety of formats. Users can render images in either 8 or 24 bits with automatic dithering. Users can also use the MacroMind Accelerator (included) to accelerate animations for real time preview on screen. MacroMind Three-D also supports output of MacRenderMan RIB file format from Pixar.

MacroMind Three-D is a perfect complement to MacroMind Director®. It lets you add dazzling 3D images and animations to your multimedia presentations and videotape productions.

MACROMIND

the multimedia company

MACROMIND

THREE-D

D E V E L O P E R V E R S I O N

3DWorks

Create animations easily by importing a model and selecting several points along the path you want it to travel. 3DWorks automatically creates the "in-between" images and then lets you easily edit the path on screen, change the motion on any axis, speed up the action or slow it down. In addition to objects you can control the movements of multiple cameras and the intensity and direction of multiple light sources.

The Score window, the heart of 3DWorks, is a hierarchical time-line that gives you complete control over every aspect of your animations and lets you accurately manipulate objects in 3D space over time, frame by frame.

RenderWorks

RenderWorks renders images and animations in 8 bit or 24 bits for photorealistic quality. The creation of natural, realistic objects is made easy with RenderWorks. Objects can take on any texture—from wood grain, marble and stone, to highly reflective chrome, to a transparent surface. MacroMind Three-D includes a library of textures. You can also paint or scan a new texture and apply it to your objects. Additionally MacroMind Three-D lets you output your scene in RIB format for rendering with Pixar's MacRenderMan™.

ImageWorks

ImageWorks lets you perform anti-aliased digital compositing on your finished animations. It's a great way to add sizzle to your animations and images. It outputs them as a series of still images, or as PICS files for real-time preview in MacroMind Accelerator, or for use in MacroMind Director. ImageWorks also provides the capability to record broadcast quality 32-bit animations frame-by-frame onto videotape using video controllers from ARTI, DiaQuest, Lyon Lamb and Videomedia.

3DWorks

Help

Hypertext help system explains every tool, window, dialog box or menu item of 3DWorks with just a click of the mouse.

Score

- Position
- Orientation
- Scale
- Color
- Transparency
- Surface geometry
- Visibility
- Hierarchy

Key Parameter Interpolation

- Constant
- Linear
- Cubic
- Ease in/out modification

Models Imported

- 3DGF
- Swivel 3D
- Super 3D
- DXF
- IGES

Export

- RenderMan RIB format

Cameras

- Multiple cameras
- Attach cameras to objects

Lights

- Multiple light sources
- Attach lights to objects
- Color

RenderWorks

- True anti-aliasing
- Transparency
- Fog

Shading

- Flat shading
- Gouraud shading
- Phong shading

Light Types

- Spotlight
- Spotlight with shadows
- Ambient
- Local
- Distant

Mapping

- Texture mapping
- Reflection mapping
- Bump mapping

ImageWorks

- Digital compositing of multiple image files
- Dither for 8-bit displays
- Reads and composites PICS files
- Blurring
- Blending

Output

- PICS
- PICT

Single frame recording onto videotape with video controllers from:

- ARTI
- DiaQuest
- Lyon Lamb
- Videomedia

MacroMind Accelerator

Realtime playback of 8-bit animations up to 30 fps
Use for realtime 8-bit preview of 24-bit animations

Includes

- 3DWorks
- RenderWorks
- ImageWorks
- MacroMind Accelerator
- Filters for model file importing

Minimum System Configuration

- SE/30, Mac II, IIx, IIcx or IIci
- 5 Mb RAM
- Hard disk
- System 6.0.3
- 32-bit QuickDraw

Availability

Developers Version direct from MacroMind
3rd Quarter 1990

MacroMind, Inc.
410 Townsend Street, Suite 408
San Francisco, CA 94107
(415) 442-0200